Print Date: Jun 3rd 2020

Certificate of Analysis

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Product Name: **SKF 96365 hydrochloride** **Catalog No.: 1147** **Batch No.: 3**

CAS Number: 130495-35-1

IUPAC Name: 1-[2-(4-Methoxyphenyl)-2-[3-(4-methoxyphenyl)propoxy]ethyl-1*H*-imidazole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{26}N_2O_3.HCl$

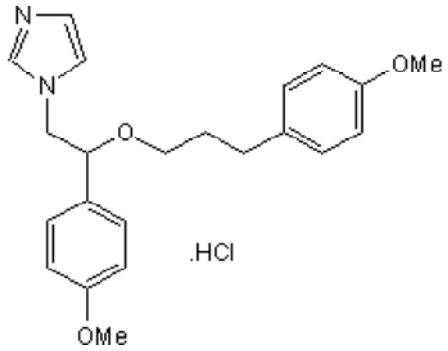
Batch Molecular Weight: 402.92

Physical Appearance: White solid

Solubility: water to 20 mM with gentle warming

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.41 (Dichloromethane:Methanol [9:1])

HPLC: Shows >99.9% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.58	6.75	6.95
Found	65.77	6.8	7.06

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Product Information

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CAS Number: 130495-35-1

IUPAC Name: 1-[2-(4-Methoxyphenyl)-2-[3-(4-methoxyphenyl)propoxy]ethyl-1*H*-imidazole hydrochloride

Description:

Store-operated Ca^{2+} entry (SOCE) inhibitor that inhibits STIM1. Also blocks TRPC channels, voltage-gated Ca^{2+} channels and potassium channels.

Physical and Chemical Properties:

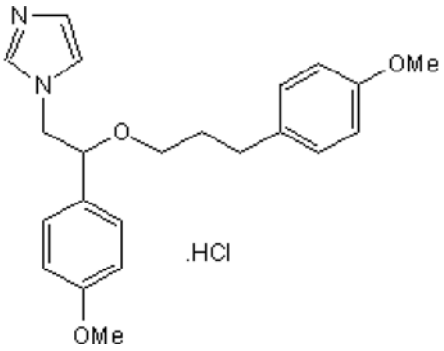
Batch Molecular Formula: $C_{22}H_{26}N_2O_3$.HCl

Batch Molecular Weight: 402.92

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 20 mM with gentle warming

Solutions in water may appear as slightly hazy.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Singh *et al* (2010) The transient receptor potential channel antagonist SKF96365 is a potent blocker of low-voltage-activated T-type calcium channels. Br.J.Pharmacol. ***160*** 1464. PMID: 20590636.

Varnai *et al* (2009) STIM and Orai: the long-awaited constituents of store-operated calcium entry. TiPS ***30*** 118. PMID: 19187978.

Merritt *et al* (1990) SK&F96365, a novel inhibitor of receptor-mediated calcium entry. Biochem.J. ***271*** 515. PMID: 2173565.

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